

Title (en)
LIQUID FILTER INTENDED FOR OIL OR FUEL IN INTERNAL COMBUSTION ENGINE AND A SUITABLE ENGINE-SIDE FILTER CONNECTION FLANGE

Title (de)
FLÜSSIGKEITSFILTER FÜR ÖL ODER KRAFTSTOFF EINER BRENNKRAFTMASCHINE UND DAZU PASSENDER MASCHINENSEITIGER FILTERANSCHLUSSFLANSCH

Title (fr)
FILTRE A LIQUIDES POUR L'HUILE OU LE CARBURANT D'UN MOTEUR A COMBUSTION INTERNE ET BRIDE DE RACCORDEMENT DU FILTRE APPROPRIEE COTE MOTEUR

Publication
EP 0800418 B1 20030205 (DE)

Application
EP 96931807 A 19960914

Priority
• DE 19539918 A 19951027
• EP 9604044 W 19960914

Abstract (en)
[origin: DE19539918C1] The proposed liquid filter is intended in particular for oil or fuel in an internal combustion engine, and a suitable filter connection flange (7) which forms part of the engine. The liquid filter (1) comprises a filter housing (2) with at least one liquid inlet duct (23) and one liquid return duct (34), a detachable cover (4) which hermetically closes off the filter housing (2), and a filter insert (5) which can be individually replaced and removed from the filter housing (2). The engine-side filter connection flange (7) has at least one liquid inlet duct (73) for the liquid to be filtered, at least one liquid return (74) for the filtered liquid and a number of sealing surfaces (701, 702, 703) which co-operate with seals (221, 222, 223) on the filter housing (2) of the liquid filter (1). The seals (221, 222, 223) on the filter housing (2) are concentric radial seals. The sealing surfaces (701, 702, 703) on the engine filter connection flange (7) are concentric radial sealing surfaces, and the filter housing (2) of the liquid filter (1) can be fitted on the engine filter connection flange (7) to create the requisite flow connections.

IPC 1-7
B01D 35/153; **B01D 35/30**; **B01D 35/16**

IPC 8 full level
B01D 27/08 (2006.01); **B01D 29/21** (2006.01); **B01D 35/02** (2006.01); **B01D 35/153** (2006.01); **B01D 35/16** (2006.01); **B01D 35/30** (2006.01); **F01M 11/03** (2006.01); **F02M 37/42** (2019.01); **F02M 37/48** (2019.01); **F02M 37/36** (2019.01)

CPC (source: EP US)
B01D 29/21 (2013.01 - EP US); **B01D 29/96** (2013.01 - EP US); **B01D 35/153** (2013.01 - EP US); **B01D 35/16** (2013.01 - EP US); **B01D 35/31** (2013.01 - EP US); **F01M 11/03** (2013.01 - EP US); **F02M 37/42** (2018.12 - EP US); **F02M 37/48** (2018.12 - EP US); **B01D 2201/162** (2013.01 - EP US); **B01D 2201/305** (2013.01 - EP US); **B01D 2201/34** (2013.01 - EP US); **B01D 2201/4084** (2013.01 - EP US); **F01M 2001/1092** (2013.01 - EP US); **F02M 37/36** (2018.12 - EP US)

Citation (examination)
US 3746171 A 19730717 - THOMSEN J

Cited by
WO2018162835A1; US11536171B2

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
DE 29613703 U1 19961002; DE 19539918 C1 19970206; DE 59610117 D1 20030313; EP 0800418 A1 19971015; EP 0800418 B1 20030205; JP 3653637 B2 20050602; JP H11506699 A 19990615; KR 100439363 B1 20040816; US 5922196 A 19990713; WO 9716234 A1 19970509

DOCDB simple family (application)
DE 29613703 U 19960808; DE 19539918 A 19951027; DE 59610117 T 19960914; EP 9604044 W 19960914; EP 96931807 A 19960914; JP 51701297 A 19960914; KR 19970704418 A 19970626; US 86025997 A 19970815